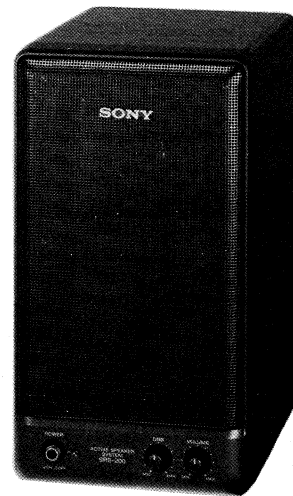


SRS-200

SRS-200

SECTION 1 DISASSEMBLY

SERVICE MANUAL



US Model
Canadian Model
AEP Model
UK Model
E Model

SPECIFICATIONS

Amplifier section

Power output 27.5 W + 27.5 W (at 10% harmonic distortion, 1 kHz)
Input L-shaped stereo miniplug
Input impedance (1 kHz)
PHONES: 100 ohms
LINE: 47 kilohms
Output Minijack

Speaker section

System Full-range, closed type
Speaker unit Full range: 106 × 106 mm (4 1/4 × 4 1/4 inches),
Passive radiator: 106 × 106 mm (4 1/4 × 4 1/4 inches)

General

Power requirements
US, Canadian model: 120 V AC, 60 Hz
UK model: 240 V AC, 50 Hz
AEP model: 220 V AC, 50 Hz
E model: 110 – 120 V or 220 – 240 V AC, 50/60 Hz

Power consumption

US model: 24 W
Canadian model: 36 W
UK model: 64 W
AEP, E model: 22 W

Dimensions

Approx. 150 × 270 × 195 mm (w/h/d)
(6 × 10 3/4 × 7 3/4 inches)

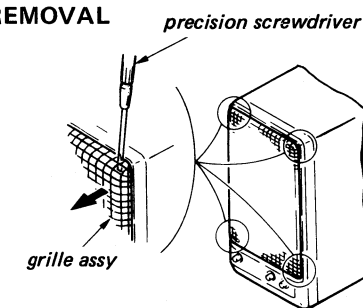
Weight

not incl. projecting parts and controls
Approx. 3.8 kg (8.3 lb) per speaker

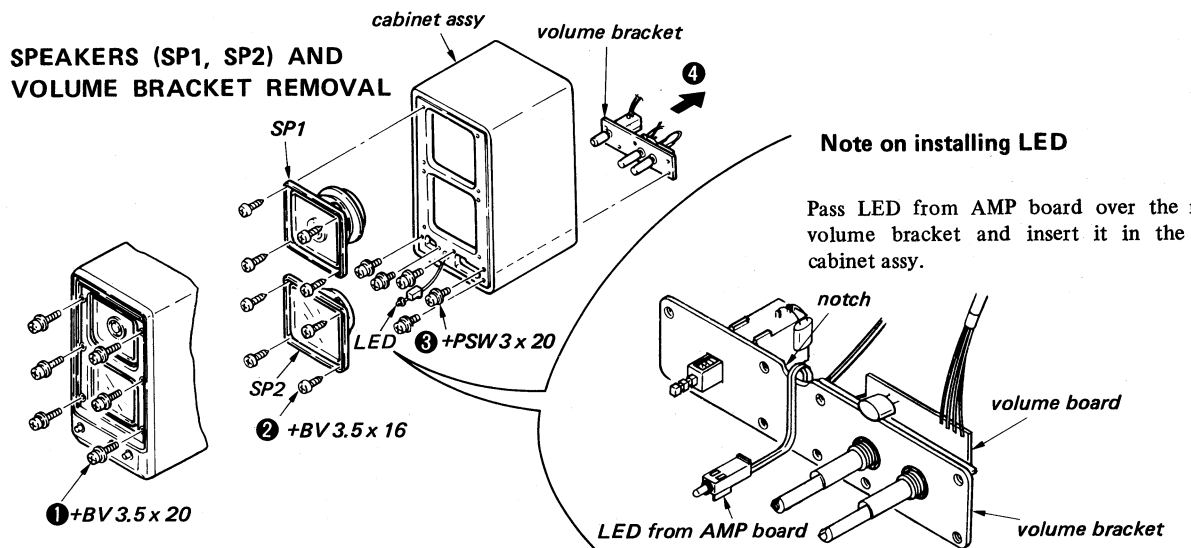
Supplied accessories

Blind seal (4) (Canadian, AEP, UK, E model)
Cushion (8)
Adaptor cord (1)
Plug adaptor (1)

GRILLE ASSY REMOVAL

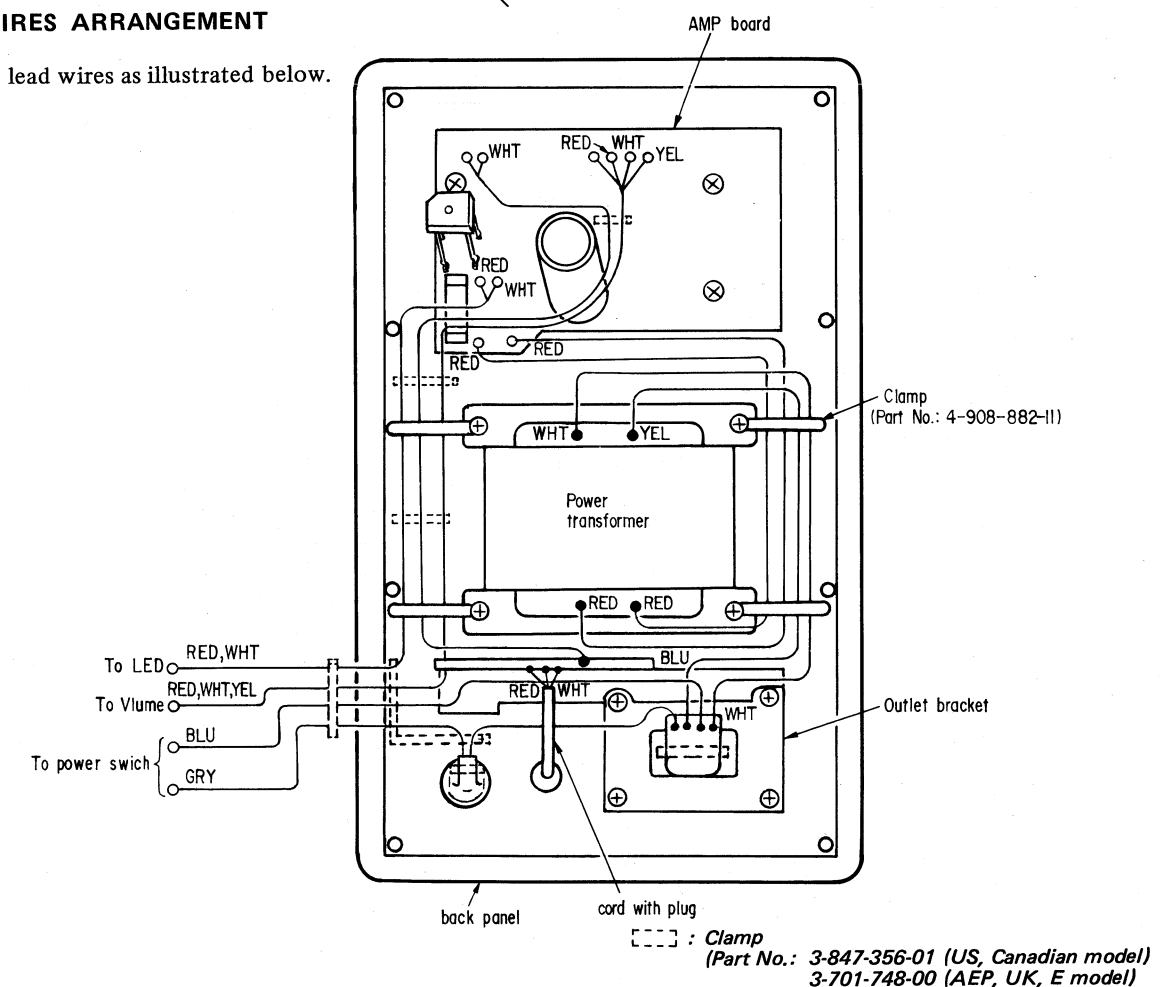


SPEAKERS (SP1, SP2) AND VOLUME BRACKET REMOVAL



LEAD WIRES ARRANGEMENT

- Arrange lead wires as illustrated below.

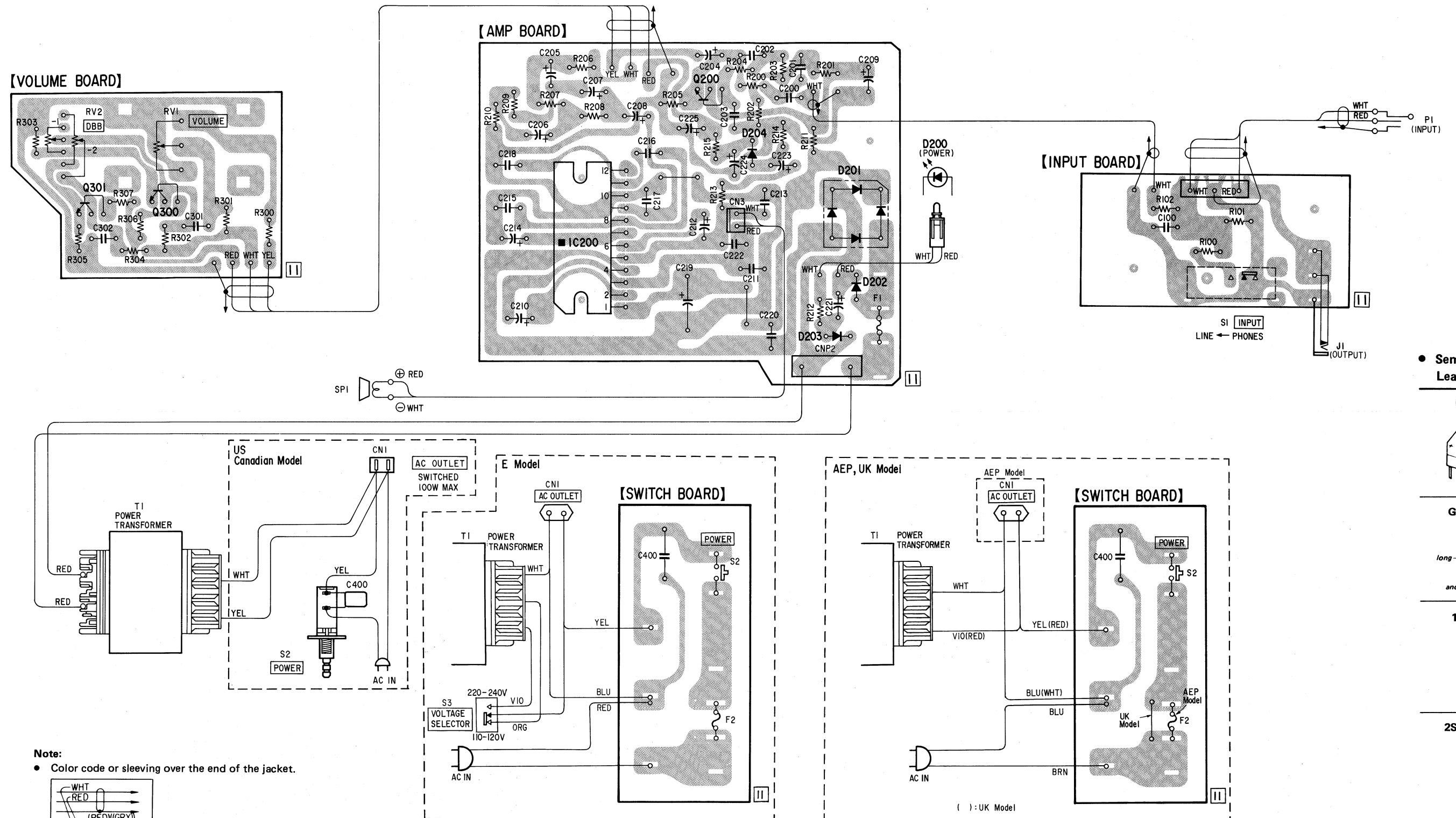


ACTIVE SPEAKER SYSTEM
SONY

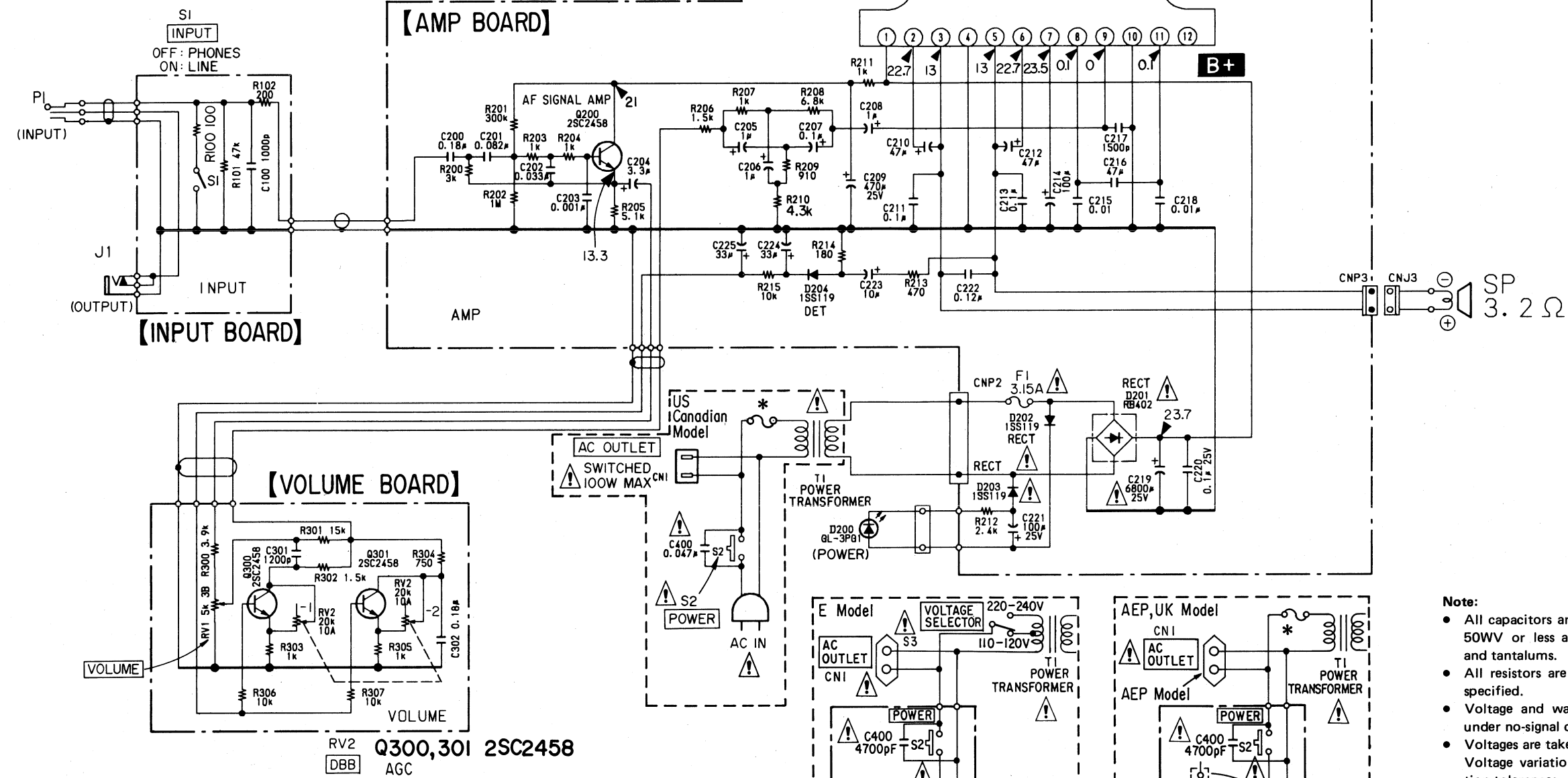


2-1. PRINTED WIRING BOARDS

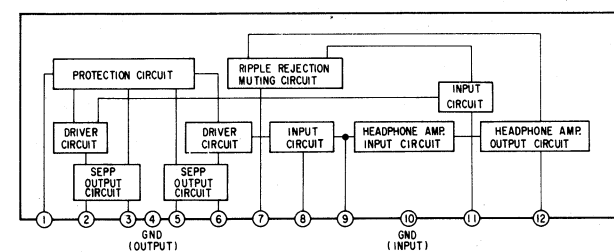
SECTION 2
DIAGRAMS



2-2. SCHEMATIC DIAGRAM



AN7161N



DBB=Dynamic Bass Boost

- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - Voltage and waveforms are dc with respect to ground under no-signal conditions.
 - Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.
 - Switches:

Ref. No.	Switch	Position
S1	INPUT	PHONES
S2	POWER	OFF
S3	VOLTAGE SELECTOR (E model only)	110-120V

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

* NOT REPLACEABLE
BUILT IN TRANSFORMER

SECTION 3 EXPLODED VIEW

NOTE:

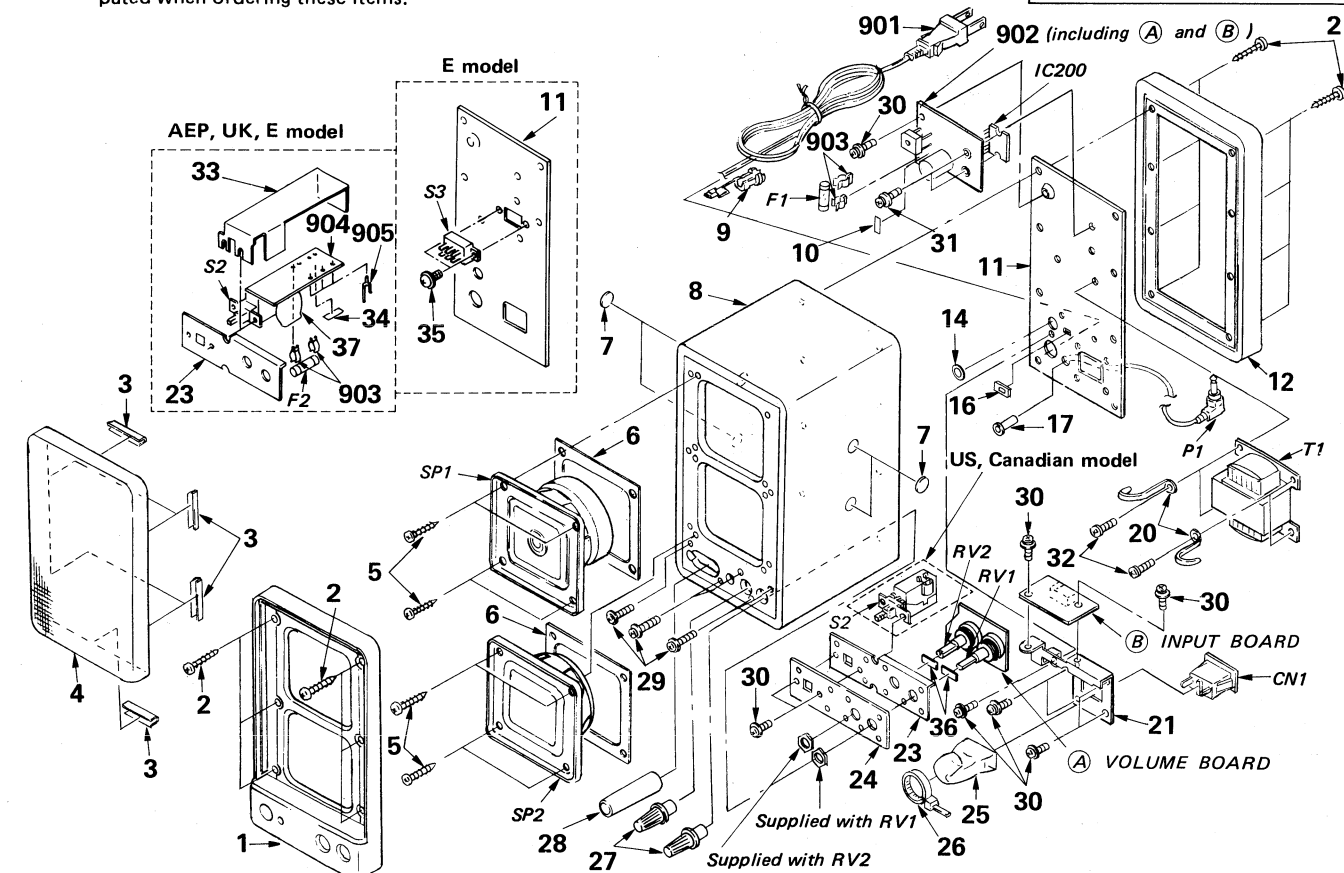
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
(RED) ... KNOB, BALANCE (WHITE)

↑ Cabinet's Color ↑ Parts' Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	2-122-860-01	PANEL, FRONT		21	*2-122-853-01	(US,Canadian)...BRACKET, OUTLET	
2	4-874-614-51	SCREW (4) (3.5X20), TAPPING		22	2-122-854-01	(AEP,UK,E).....BRACKET, OUTLET	
3	9-911-844-XX	CUSHION, GRILLE		23	*2-122-852-01	BRACKET, VOLUME	
4	X-2122-812-1	GRILLE ASSY		24	*2-122-848-01	PACKING, VOLUME	
5	4-874-614-61	SCREW (4) (3.5X16), TAPPING		25	*2-122-867-01	(US,Canadian)...COVER, OUTLET	
6	3-819-833-01	(AEP,UK,E).....CUSHION, WOOFER		26	2-122-869-01	(AEP,E).....COVER, OUTLET	
7	3-897-010-01	(US).....SEAL, BLIND		27	*3-655-653-11	(US,Canadian)..BAND (TAITON), BINDING	
8	*3-897-010-11	(Canadian,AEP,UK,E)...SEAL, BLIND		28	3-701-748-00	(AEP,E).....CLAMP	
9	X-2122-814-1	CABINET ASSY		29	2-122-850-01	KNOB, VOLUME	
10	2-391-455-01	(US,Canadian)...BUSHING (CM-22C)		30	2-122-851-01	KNOB, SWITCH	
11	2-391-456-01	(AEP,UK).....BUSHING (CM-22B)		31	7-682-653-09	SCREW +PSW 3X20	
12	2-392-799-01	(E).....BUSHING, CORD		32	7-682-647-09	SCREW +PSW 3X6	
13	*3-701-946-24	(Canadian)....LABEL, FUSE		33	7-682-649-09	SCREW +PSW 3X10	
14	*3-701-946-25	(US).....LABEL, FUSE		34	7-682-660-09	SCREW +PS 4X6	
15	*3-701-947-15	(AEP,UK,E)....LABEL, FUSE		35	*2-122-873-01	(AEP,UK,E)...INSULATOR	
16	*2-122-856-11	(US).....PANEL, BACK		36	3-701-947-10	(AEP)...LABEL, FUSE	
17	*2-122-856-21	(AEP).....PANEL, BACK		37	3-701-947-12	(E)....LABEL, FUSE	
18	*2-122-856-31	(Canadian)...PANEL, BACK		38	7-682-648-09	(E)....SCREW +PSW 3X8	
19	*2-122-857-01	(E).....PANEL, BACK		39	*2-122-836-01	CUSHION, VOL KNOB	
20	*2-122-858-01	(UK).....PANEL, BACK		40	2-269-321-00	(AEP,UK,E)...COVER, SPARK KILLER	
21	2-122-859-01	CUSHION, BACK PANEL					
22	4-846-520-00	RING, (TRIP)					
23	*2-122-846-01	PACKING, SWITCH					
24	2-512-409-11	BUSHING, CABLE					
25	*4-908-882-11	CLAMP					

SECTION 4 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	 1-551-478-00	(US,Canadian)...CORD, POWER	P1	1-558-605-21	CORD (WITH PLUG)
	 1-555-795-00	(AEP,E).....CORD, POWER	Q200	8-729-600-27	TRANSISTOR 2SC634SP
	 1-558-032-11	(UK).....CORD, POWER	Q300	8-729-600-27	TRANSISTOR 2SC634SP
902	*A-4518-323-A	MOUNTED PCB, AMPLIFIER	Q301	8-729-600-27	TRANSISTOR 2SC634SP
903	1-533-183-11	HOLDER, FUSE			
904	*A-4518-327-A	(AEP,UK,E)...MOUNTED PCB, SWITCH	R100	1-249-405-11	CARBON 100 5% 1/4W
905	*1-535-688-11	(AEP,UK,E)...TERMINAL	R101	1-249-437-11	CARBON 47K 5% 1/4W
C100	1-102-074-00	CERAMIC 0.001MF 10% 50V	R102	1-247-814-11	CARBON 200 5% 1/4W
C200	1-130-498-00	MYLAR 0.18MF 5% 50V	R200	1-247-842-11	CARBON 3K 5% 1/4W
C201	1-130-494-11	MYLAR 0.082MF 5% 50V	R201	1-247-890-11	CARBON 300K 5% 1/4W
C202	1-130-489-00	MYLAR 0.033MF 5% 50V	R202	1-247-903-00	CARBON 1M 5% 1/4W
C203	1-130-471-00	MYLAR 0.001MF 5% 50V	R203	1-249-417-11	CARBON 1K 5% 1/4W
C204	1-126-162-11	ELECT 3.3MF 20% 35V	R204	1-249-417-11	CARBON 1K 5% 1/4W
C205	1-123-611-00	ELECT 1MF 20% 50V	R205	1-247-848-11	CARBON 5.1K 5% 1/4W
C206	1-123-611-00	ELECT 1MF 20% 50V	R206	1-249-419-11	CARBON 1.5K 5% 1/4W
C207	1-124-463-00	ELECT 0.1MF 20% 50V	R207	1-249-417-11	CARBON 1K 5% 1/4W
C208	1-123-611-00	ELECT 1MF 20% 50V	R208	1-249-427-11	CARBON 6.8K 5% 1/4W
C209	1-124-480-11	ELECT 470MF 20% 25V	R209	1-247-830-11	CARBON 910 5% 1/4W
C210	1-124-477-11	ELECT 47MF 20% 25V	R210	1-247-846-11	CARBON 4.3K 5% 1/4W
C211	1-130-495-00	MYLAR 0.1MF 5% 50V	R211	1-249-417-11	CARBON 1K 5% 1/4W
C212	1-124-477-11	ELECT 47MF 20% 25V	R212	1-247-840-00	CARBON 2.4K 5% 1/4W
C213	1-130-495-00	MYLAR 0.1MF 5% 50V	R213	1-249-413-11	CARBON 470 5% 1/4W
C214	1-124-478-11	ELECT 100MF 20% 25V	R214	1-249-408-11	CARBON 180 5% 1/4W
C215	1-130-483-00	MYLAR 0.01MF 5% 50V	R215	1-249-429-11	CARBON 10K 5% 1/4W
C216	1-124-293-91	ELECT 47MF 20% 6.3V	R300	1-249-424-11	CARBON 3.9K 5% 1/4W
C217	1-161-041-00	CERAMIC 0.0015MF 5% 25V	R301	1-249-431-11	CARBON 15K 5% 1/4W
C218	1-130-483-00	MYLAR 0.01MF 5% 50V	R302	1-249-419-11	CARBON 1.5K 5% 1/4W
C219	 1-124-771-00	ELECT 6800MF 20% 25V	R303	1-249-417-11	CARBON 1K 5% 1/4W
C220	1-161-772-11	CERAMIC 0.1MF 10% 25V	R304	1-247-828-11	CARBON 750 5% 1/4W
C221	1-124-478-11	ELECT 100MF 20% 25V	R305	1-249-417-11	CARBON 1K 5% 1/4W
C222	1-130-496-00	MYLAR 0.12MF 5% 50V	R306	1-249-429-11	CARBON 10K 5% 1/4W
C223	1-124-247-00	ELECT 10MF 20% 25V	R307	1-249-429-11	CARBON 10K 5% 1/4W
C224	1-124-482-11	ELECT 33MF 20% 25V	RV1	1-238-146-11	RES, VAR, CARBON 5K (VOLUME)
C225	1-124-482-11	ELECT 33MF 20% 25V	RV2	1-238-145-11	RES, VAR, CARBON 20K/20K (DBB)
C301	1-130-472-00	MYLAR 0.0012MF 5% 50V	S1	1-571-329-11	SWITCH, SLIDE (INPUT)
C302	1-130-498-00	MYLAR 0.18MF 5% 50V	S2	 1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)
C400	 1-136-344-11	(US,Canadian)...CAP, FILM 0.047MF	S3	 1-570-173-21	(E)...SWITCH, VOLTAGE CHANGE
C400	 1-162-578-00	(AEP,UK,E)...CERAMIC 0.0047MF 20% 400V	SP1	1-503-909-11	SPEAKER UNIT
CN1	 1-526-794-11	(AEP,E).....OUTLET, AC	SP2	1-503-910-11	PASSIVE RADIATOR
CN2	 1-526-882-00	(US,Canadian)...OUTLET, AC			
CNP2	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P	T1	 1-449-325-11	(US,Canadian)...TRANSFORMER, POWER
CNP3	*1-508-796-00	PIN, CONNECTOR 2P	T1	 1-449-326-11	(UK).....TRANSFORMER, POWER
D200	8-719-930-41	DIODE GL-3PG1	T1	 1-449-327-11	(E).....TRANSFORMER, POWER
D201	 8-719-300-57	DIODE RB402	T1	 1-449-328-11	(AEP).....TRANSFORMER, POWER
D202	 8-719-911-19	DIODE 1SS119			
D203	 8-719-911-19	DIODE 1SS119			
D204	8-719-911-19	DIODE 1SS119			
F1	 1-532-286-00	(AEP,UK,E)...FUSE, TIME-LAG			
F1	 1-532-744-11	(Canadian)...FUSE, GLASS TUBE			
F1	 1-532-745-11	(US).....FUSE, GLASS TUBE			
F2	 1-532-215-00	(AEP)...FUSE, TIME-LAG			
F2	 1-532-285-00	(E).....FUSE, TIME-LAG			
IC200	8-759-403-73	IC AN7161N			
J1	1-507-777-00	JACK, SMALL TYPE			
JW1	*1-535-303-00	WIRE, JUMPER			
JW2	*1-535-303-00	WIRE, JUMPER			

ACCESSORY & PACKING MATERIAL

1-506-401-00	(E)...ADAPTOR, CONVERSION
1-506-589-11	PLUG, ADAPTOR
1-566-494-11	ADAPTOR, PLUG
*2-122-863-01	CUSHION (F)
*2-122-864-01	CUSHION (R)
*2-122-865-01	INDIVIDUAL CARTON
2-122-871-01	FOOT, RUBBER
3-703-390-01	(US)...INSTRUCTION
3-769-892-21	(US).....MANUAL, INSTRUCTION
3-769-892-11	(Canadian,AEP,UK,E)...MANUAL, INSTRUCTION

9-953-113-11

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